#### "APPROVED FOR RELEASE: 08/23/2000 CIA-F

CIA-RDP86-00513R000514610007-7

EPR/EWP(j)/EPF(c)/EPF(n)-2/EWT(m)/FCS/T-2/EDS/ES(s)-2/ES(v)--AEDC/AFFTC/ASD/SSD--Pa-li/Pc-li/Pr-li/Pu-li/Pt-li/Pe-li--RM/WW L 10774-63 ACCESSION NR: AP3003304 S/0191/63/000/007/0030/0021 AUTHOR: Kirilovich, V. I.; Rubtsova, I. K.; Gefter, Ye. L. 92 TITLE: Preparation of phosphorus-containing polyesters/by the transesterification of dialkyl phosphonates by hydroxy compounds SOURCE: Plasticheskiye massy, no. 7, 1963, 20-21 TOPIC TAGS: polyesters, phosphorus-containing polyesters, thermosetting polyesters, polytransesterification, transesterification, dimethyl phosphonate, diethyl phosphonate, diols, polyols, hexanediol, pentaerythritol, hydrocuinone, sodium, catalyst, fire retardant, fire-retardant additives ABSTRACT: With a view toward the development of thermosetting phosphoruscontaining polyesters, a study has been made of polytransesterification between a dialkyl phosphonate and a di- or polyol to form a polyester which can subsequently be cross-linked. Dimethyl or diethyl phosphonate and hexanediol, Card 1/3 

L 10774-63 ACCESSION NR: AP3003304

pentaerythritol, 2,2-bis(chloromethyl)-1,3-propanediol, hydroquinone, or 4, 4'-isopropylidenediphenol were used as starting materials. Transesterification was conducted by heating a mixture of the phosphonate, di- or polyol, and sodium metal catalyst (1/1/0.017 molar ratio) under an inert gas, with simultaneous stripping of the liberated alcohol. Transesterification rate and polyester yield were to a great extent determined by the structure of the di- or polyol. For example, the rate was higher and initial reaction temperature lower with hexanediol and pentarerythritol than with the diphenols. The polyester yield varied from 64.6% for hydroquinone and diethyl phosphonate to 97.1% for pentaerythritol and dimethyl phosphonate. Study of the effect of such catalysts as sodium metal and potassium acetate on transesterification between dimethyl phosphonate and hexanediol transesterification showed that the initial reaction temperature was 30C lower with sodium than it was with no catalyst; the yield was 92,4% with the catalyst, as against 86.4% without it. The polyesters are resins ranging from viscous to solid, with Ubbelholde drop points of 40 to 140C) and molecular weight up to 18,000. The polyesters are suitable as fire-retardant additives to various polymers. They can be chlorinated to form polyesters

Card 2/3

L 10774-63

ACCESSION NR: AP3003304

containing acid chloride groups, which can be converted by ethylene oxide treatment to  $\beta$ -chloroethyl groups. Orig. art. has: 4 formulas and 3 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 30Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 007

OTHER: 003

Card 3/3

ACCESSION NR: AT4017407

\$/000/63/000/000/0037/0039

AUTHOR: Wu, Mei-yen; Tyuganova, M. A.; Gefter, Ye. L.; Rogovin, Z. A.

TITLE: Synthesis of new derivatives of cellulose and other polysaccharides. XXXII. Synthesis of phosphorylated cellulose derivatives by transesterification

SOURCE: Tsellyuloza i yeye proizvodny\*ye, sbornik statey (Cellulose and its derivatives). Moscow, 1963, 37-39

TOPIC TAGS: polysaccharide, cellulose, phosphorylated polysaccharide, cellulose phosphate, phosphorylation, transesterification, fire resistance, synthetic fiber, nonflammable material

ABSTRACT: The preparation of nonflammable cellulose materials was attempted by means of transesterification using  $tri(\beta,\beta^1,\beta^{11}-chloroethyl)$  phosphite. By heating cellulose at 80, 110 and 130C for 5 and 8 hours in a 35-70% benzene solution of the phosphite, a series of cellulose esters was obtained with an average P-content of about 3% and a fire resistance of 90-130 by the American standard (W. Reeves, 0. McMillan, J. Guthrie, Text. Res. J., 8, 527, 1957). Using 0.35% HCl and 2% CH<sub>3</sub>COOH as catalysts, a P-content of 4% was obtained under less rigorous conditions. The esterification rate in air was about equal to that in argon. Prolonged exposure to air causes the trivalent phosphorus of the products to change to

ACCESSION NR: AT4017407

pentavalent. In addition to the P-content in the product, fire resistance depends on the nature of the prevailing bonds, the C-P bond tending to increase resistance. Orig. art. has: 2 tables.

ASSOCIATION: Moskovskiy tekstil'nywy institut (Moscow Textile Institute)

SUBMITTED: 25Jan62

DATE ACQ: 06Jan64

ENCL: 00

SUB CODE: CH, MA

NO REF SOV: 005

OTHER: 001

Card 2/2

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ACCESSION NR: AP4010563

8/0291/63/000/006/0071/0075

AUTHORS: Yuldashev, A.; Gefter, Ye.L.

TITLE: Process of hardening the homocondensation product of di-beta, beta'-chloroethyl ester of vinylphosphonic acid.

SOURCE: Uzbekskiy khimicheskiy zhurnal, no.6, 1963, 71-75

TOPIC TAGS: vinylphosphonate condensate, curing, hardening, vinylphosphonic acid ester, heat stability, hardness, swelling, water absorption, monomer, linear polymer, cured polymer, IR spectrum

ABSTRACT: The degree of hardening and the thermal stability and hardness of the products formed by curing the di-beta, beta'-chloroethyl ester of vinylphosphonic acid at different temperatures (at 50-1000) with different amounts of catalyst (0.2-5% benzoyl peroxide) up to 30 hours were studied. Increasing the peroxide from 0.2-0.5% increases hardness; more peroxide is deleterious to the physical-mechanical properties. If no peroxide is used, heating from 50-1000 for 30 hours produces no hardening. With the optimum 0.5% initiator, curing is

Card 1/2

#### ACCESSION NR: AP4010563

very rapid at first, reaching completion in about 10 hours. The product is stable to about 2300. The extent of water absorption and swelling in organic solvents and in acid and alkali was determined. Comparison of the IR spectra of the monomer, the linear polymer, and the cured polymers shows that the absorption in the cured polymer at 1620Cm<sup>-1</sup> (characteristic of the vinyl group bond with a P atom) fades out, indicating the disappearance of the double bond. Orig. art. has: 3 tables and 4 figures.

ASSOCIATION: Institut khimii polimerov AN UZSSR (Institute of Polymer Chemistry, AM UZSSR); Moskovskiy nauchno-issledowatel'skiy institut plastmass (Moscow Plastics Scientific Research Institute)

SUBMITTED: 01Sep62

DATE ACQ: 11Feb64

EMCL: 00

SUB CODE: OH

MR RMF SOV: 004

OTHER: 000

Card - 2/2

ROGOVIN, Z.A.; U MEY-YAN' [Wu Mei-yen]; TYUGANOVA, M.A.; ZHAROVA, T.Ya.; GEFTER, Ye.L.

Synthesis of new derivatives of cellulose and other polysaccharides. Part 25: Effect of the structure of organophosphorus derivatives of cellulose on the fireproofness of cellulosic materials. Vysokom.-soed. 5 no.4:506-511 Ap '63. (MIRA 16:5)

1. Moskovskiy tekstil'nyy institut.
(Cellulose) (Fireproofing) (Phosphorus organic compounds)

GEFTER, Ye.L.

Determination of chlorine in  $\beta$ -chloroethyl derivatives of organophosphorus acins. Zav.lab. 29 no.4:419 '63. (MIRA 16:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut plasticheskikh mass.

(Chlorine--Analysis) (Phosphorus organic compounds)

L 10667-63

EWP(j)/EPF(c)/EWT(m)/BDS--Pr-L/Pc-L-RM/WW

S/079/63/033/004/004/010

AUTHOR:

Gefter, Ye.L., Rogacheva, I.A.

TITLE:

Interaction of aryldichlorophosphines with cyclic oxides \( \tilde{VI} \). The Arbuzov regrouping of di-\( \beta \), \( \beta \) '-chloroethyl esters of phenyl- and ablorophoryl phenyl-

chlorophenylphosphinic acids

PERIODICAL:

Zhurnal obshchey khimii, v. 33, no. 4, 1963,

1177-1180

TEXT: The Arbuzov regrouping of  $\text{tri-}\beta$ ,  $\beta$ ',  $\beta$ "— chloroethylphosphite can be complicated by the competing process of its thermal isomerization. In order to minimize this possibility the authors employed sufficiently active halogen-bearing compounds as the agents for the Arbuzov regrouping. These were methyl iodide, ethyl and allyl bromide, and acetyl chloride. All the reactions proceeded easily; the mixing of  $\text{di-}\beta$ ,  $\beta$ !— chloroethyl esters of phenyl— and (to a lesser degree)

Card 1/2

L 10667-63

S/079/63/033/004/004/010

Interaction of aryldichlorophosphines with ...

chlorophenylphosphinic acids with methyl iodide and acetyl chloride was even accompanied by the release of heat. The products obtained were the  $\beta$ -chloroethyl esters of the corresponding arylalkyl-(alkenyl-, acyl-) phosphinic acids. There is 1 table which contains constants and other data for the

ASSOCIATION:

Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific Research Institute of Plastics)

SUBMITTED:

February 28, 1962

kes/ 👍 Card 2/2

<u>t 22650-65</u> EPF(c)/EWP(j)/EWT(m)/T Pc-4/Pr-4 RM/MLK ACCESSION NR: AT5002113 S/0000/64/000/000/0075/0079

AUTHOR: Sokolovskiy, M.A.; Zavlin, P.M.; Medenikova, N.Ye.; Bogolyubov, G.M.; Gefter, Ye. L.; Moshkin, P.A.

TITLE: Phosphorus-containing monomers with different functional groups

SOURCE: AN SSSR. Institut neftekhimicheskogo sinteza. Sintez i svoystva monomerov (The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 75-79

TOPIC TAGS: organophosphorus compound, polycondensation, vinylphosphinic scid, polyster, polyamide

ABSTRACT: The purpose of this investigation was the preparation of phosphorus-containing monomers with functional groups capable of combining the reactions of polycondensation and polymerization. The investigation dealt with certain derivatives of vinylphosphinic acid, which, because of their availability could become of practical interest. From the point of view of the synthesis of phosphorus-containing polymeric compounds (polyesters, compounds of the polyamide type), new phosphorus-containing analogs of terephthalic acid with a P-C bond were synthesized. By reacting the di-(\$\mathcal{C}\$-chloroethyl) ester of vinylphosphinic acid with amino-alcohols and amino-carboxylic acids, new phosphorus-containing monomers were obtained which contain different functional groups. These functional groups

Card 1/2

#### "APPROVED FOR RELEASE: 08/23/2000

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L 22660-65 ·

ACCESSION NR: AT5002113

were secondary amine, hydroxyl, and carboxyl groups, which are capable of condensation, as well as the vinyl group which facilitates polymerization. Orig. art. has: 10 formulas.

ASSOCIATION: None

SUBMITTED: 30Jul64

ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 007

OTHER: 000

2/2 Card

Interaction of aryldichlorophosphines with cyclic oxides. Part 8:
Interaction of tolyldichlorophosphine with etylene oxide. Whyr.ob.
khim. 34 no.1:88-91 Ja '64.

Interaction of myllicity interaction cyclic oxides. Part 9:
Interaction of myllicity interaction of phenylphosphinic acid.
(MIRA 17:3)

1. Nauchno-issleddwatel'skiy institut plasticheskikh mass.

L 35556-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM ACCESSION NR: AP5008146

s/0286/65/000/005/0023/0023

AUTHORS: Orlov, N. F.; Mileshkevich, V. P.; Gefter, Ye. L.

De Constitution

TITLE: A method for obtaining triorganosilanol esters of oximethylphosphinic acid. Class 12, No. 168695

SOURCE: Byulleten' Zobreteniy i tovarnykh znakov, no. 5, 1965, 23

TOPIC TAGS: ester, triorganosilanol, hydroxymethylphosphinic acid, triorganoalkoxysilane

ABSTRACT: This Author Certificate presents a method for obtaining triorgenosilanol esters of hydroximethylphosphinic acid. The latter is heated to 100-230C and is subjected to interaction with triorgenoalkoxysilanes.

ASSOCIATION: none

SUBMITTED: 13Jan64

ENCL: 00

SUB CODE: OC

NO REF SOV: 000

OTHER: 000

Card 1/1

L 35523-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM

ACCESSION NR: AP5008202

S/0286/65/000/005/0071/0071

AUTHORS: Valgin, V. D.; Vasil'yeva, E. A.; Sergeyeva, V. A.; Gefter, Ye. L.;

Yuldashev, A.

TITLE: A method for producing foam plastic. Class 39, No. 168881

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 71

TOPIC TAGS: foam plastic, epoxy resin, surface active substance, polycondensation

ABSTRACT: This Author Certificate presents a method for producing foam plastic from epoxy resins, hardener, porophor, and surface-active substance. In order to obtain a fireproof, self-quenching product, the homopolycondensation product of \$, \$'dichlordicthyl ester of vinyl phosphonic acid in the amount of 25-28% of the quantity of apoxy resin is introduced into the mixture.

ASSOCIATION: none

SUBMITTED: 10Apr62

ENCL

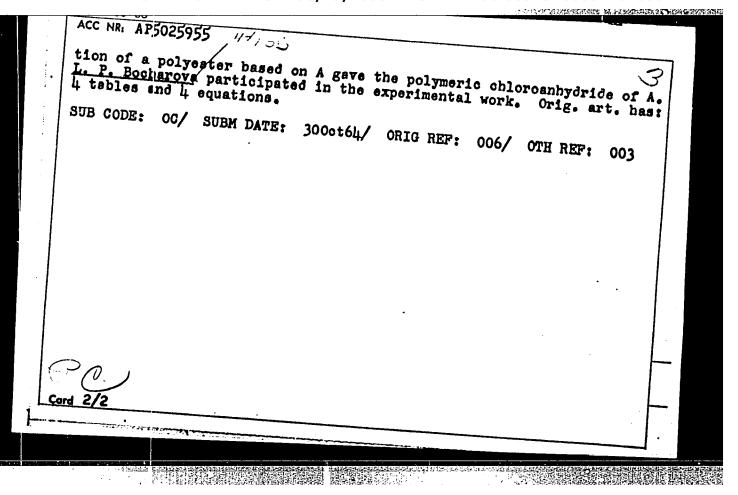
SUB CODE: MT, OC

NO REF 50V: 000

OTHER:

Card 1/1

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	L 8868-66 EVI (m)/EVIP(j) WW/RM	
	ACC NR: AP5025955  44,5 SOURCE CODE: UR/0190/65/007/010/1684/1688  AUTHOR: Shner, S. M.; Rubtsova, I. K.; Gefter, Ye. L.	,
•	44,53 300 NOE CODE: 1, 0R/0190/65/007/019/1684/1688	
	AUTHOR: Shner, S. M.; Rubtsove, T. K. 1993	
	A Golder, Ye. L.	
	ORG: Scientific Research Trattants of The	
	issledovatel'skiy institut plasticheskikh mass)	
	i i	
	TITLE: Investigation of conversions of di-(beta-chloroethyl) phosphite	
	and its derivatives. Report No. 1. Homopolycondensation of di-(beta-chloroethyl) phosphite and di-(beta-chloroethyl) and di-(beta-chloroethyl) and di-(beta-chloroethyl) and di-(beta-chloroethyl) and di-(beta-chloroethyl)	
	chlorosthyl) phosphite and di-(beta-chlorosthyl) chlorophosphate	
	SOURCE: Vysokowel almil	
	SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965,	
	TOPIC TAGS: organic phosphorus compound	
	TOPIC TAGS: organic phosphorus compound, polycondensation, chlorina- tion, polyester plastic TICHLORINATED ORGANIC COMPOUND	
	15 CHLORINATED ORGANIC COMPOUND	
	ABSTRACT: The homopolycondensation heretofore not described in the	
	literature, of di-(beta-chloroethyl) phosphite. (A) and of di-(beta-chloroethyl) phosphite.	
	chloroethyl chlorophosphate (B) was studied. Phosphorus-containing	
_	polyesters/were synthesized from A and from B by thermal homopoly-	
	condensation upon elimination of dichloroethane. Resction of A pro-	-
	ceeded most smoothly at 205-207° to give a polyester yield of 99.4%	
	in 6-7 hours. B is best reacted at 186-1880 for 2.5 hours. Chloring.	
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	UDC: 678,674	
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#### "APPROVED FOR RELEASE: 08/23/2000

#### CIA-RDP86-00513R000514610007-7

L 42422-65 EMI:(m)/EPF(c)/EMP(1) Pc-4/Pr-4 RM ACCESSION NR: AP5008842 \$/0079/65/035/003/0590/0591 AUTHOR: Orlov, N. F.; Mileshkevich, V. P.; Gefter, Ye. L. TITLE: The reaction of hydroxymethylphosphinic acid with triorganoalkoxysilanes SOURCE: Zhurnall obshchey khimii, v. 35, no. 3, 1965, 590-591 TOPIC TAGS: silicon organic compound, organic synthesis, methylol group, phosphinic ABSTRACT: The reaction of organoalkosysilanes with hydroxymethylphosphinic acid, HOCH2P(0)(OH)2 is studied. It was found experimentally that alcohol and acid group reactions with triorganoalkoxysilanes take place at comparable rates and the main reaction product is a triorganosilyl ester of hydroxymethylphosphinic acid, which is formed with 4.5-55% yield as follows:  $R_3$ SiOR' + HOCH<sub>2</sub>P(0)(OH)<sub>2</sub>+ $R_3$ SiOCH<sub>2</sub>P(0)(OSiR<sub>3</sub>) + 3R'OH The reaction is carried out by heating a mixture of triorganoalkoxysilane with hydroxymethylphosphinic acid in a molar ratio of 3:1. The alcohol formed during the reaction is distilled off and the reaction product is then isolated. The Card 1/2

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lcohol yield is 75-1 he authors give the					
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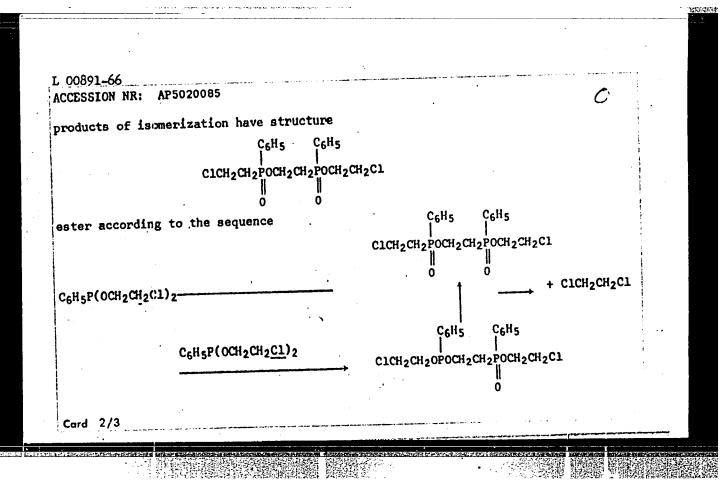
ORLOV, W.F.; MILESHKEVICH, V.P.; GEFTER, Ye.l.

Synthesis of his (triorganosily) triorganesily lexymethyl phosphinates by the reaction of organizations hydridity its hydroxymethylphosphinic seid. Zhur. ov. khim. 35 cc.7: 1312-1313 Ul '65. (MIRA 18:8)

1. Leningradskiy institut tekstil noy i legkoy promythicanosti im. S.M. Kirova.

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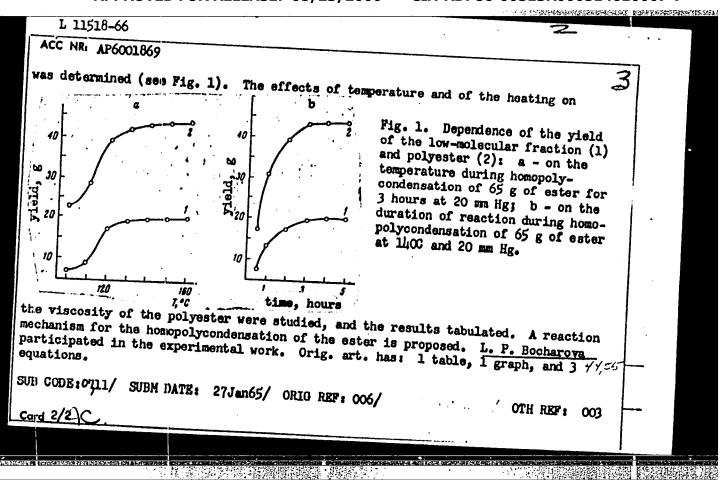
ACCESSION NR: AP5020085	UR/0079/65/035/008/1463/1467 547.26'118 : 547.361 /9
65	17 <sub>A</sub>
AUTHOR: Gefter, Ye. L.; Rogacher FITLE: Interaction of aryldiching to the problem of thermal isomer	lowerhosphines with cyclic oxides. X. Contribution rization of dr B-chloroethyl esters of arylphospho-
nous acids ( ) bb	
SOURCE: Zhurnal obshchey khimi	i, v. 35, no. 8, 1965, 1463-1467
hydrocarbon	ic compound, isomerization, cyclic group, aromatic
general formula	l esters of aryl-β-chloroethylphosphonic acids of a
(where X is H, Cl, CH <sub>3</sub> O, and CH thermal isomerization of di-B-c	is) were prepared in order to study the mechanism of chloroethyl esters of arylphosphonous acids. For each chloroethyl esters of arylphosphonous acids.
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to form	PCOCH,CH,CI → C	C <sup>1</sup> 11 <sup>2</sup> CH <sup>2</sup> CH <sup>2</sup>	C,H, CH3CH3CH3CH3C	. <b>t</b>		
			A 4 44-5			
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ACCESSION NR: AP5020085			NEV.	
intermediate transforms in	nnstable cyclic intermediate into β-chloroethyl ester of pho n of it reacts with another mo	anyl-β-chloroethylph	ioaphonic 🗆 🗀	
to form  Cells  CICH3CH3	CH1CH1CH — CICH2CH2CH3CH3CH3CH3CH3CH3CH3CH3CH3CH3CH3CH3CH3C	CeHs PCH2CH2CI P	:	
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ASSOCIATION: Nauchno-issi Research Institute for Plants SUBMITTED: 30Apr64	ledovatel'skiy institut plasti astics) / ENCL: 00			

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A L 11518-66 EWT(m)/EWP(j) WW/RM  SOURCE CODE: UR/0190/65/007/012/2142/2145
16
ORG: Scientific Fesearch Institute for Plastics (Nauchno-issledovatel skiy institutif)
TITLE: Synthesis and homopolycondensation of di-\$\beta\$, \$\beta\$!-chloroethyl ester of oxymethylphosphonic acid. 2nd communication in the series, Investigation of transformation of di-\$\beta\$, \$\beta\$! - chloroethylphosphine acid and its durivatives
SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2142-2145
TOPIC TAGS: polymer, polymerization, polymerization rate, polymerization kinetics, polymerization degree, polymerization decid, playhour acid, ester, polycondenation, occasio as at their process.  ABSTRACT: Further work is reported on the properties and transformations of di-B-  ABSTRACT: Further work is reported on the properties and transformations of di-B-  ABSTRACT: Further work is reported on the properties by S. M. Shner, I. K. Rubtsova,
ABSTRACT: Further work is reported on the properties and transformations of di- G = B - Chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, II K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, II K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, II K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, II K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, II K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, II K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, II K. Rubtsova, B'-chloromethylphosphinic acid, previously reported by S. M. Shner, B'-chloromethylphosphinic acid, previousl
chloroethyl ester of oxymethyl phosphinic acid was carried out according to the
acid with formaldehyde. The thermal homopolycondensation of the physical acid with formaldehyde. The thermal homopolycondensation of the physical acid with formaldehyde. The thermal homopolycondensation of the physical acid with formaldehyde.
studied. The homopolycondensation yielded   formal photosisting of dichloroethane, ethylenechlorohydrine, and
Cord 1/2 UDC: 511.64+678.86



#### "APPROVED FOR RELEASE: 08/23/2000 CIA-R

CIA-RDP86-00513R000514610007-7

L 21425-66 EPT(m)/EWP(j)/T/ETC(m)-6 WH/RM ACC NR. AP6010113 SOURCE CODE: UR/0190/66/008/003/0486/0489 AUTHOR: Stefanovskaya, N. N.; Gefter, Ye. L. ORG: Scientific Research Institute of Plastics (Nauchno-issledovatel'skiy institut plasticheskikh mass) TITLE: Study of the polymerization ability of esters of phenylvinylphosphinic acid SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 3, 1966, 486-489 TOPIC TAGS: phenylvinylphosphinic acid, alkyl phenylvinylphosphinate, flame resistant polymer, phosphorus containing polymer, styrene, styrene copolymer, polymerization, copolymerization ABSTRACT: The polymerization and copolymerization ability of some esters of phenylvinylphosphinic acid (PVPA)  $C_6H_5(CH_2=CH)P(0)OH$  was investigated to widen the list of phosphonates and phosphinates usable as flame retardant monomer components of plastics. The following esters were studied: ethyl-, ethylene glycol- and allyl phenylvinylphosphinates. It was found that the ethyl ester polymerizes slowly, forming only low-molecular products. Both double bonds in the symmetrically estrified ethylene glycol ester have about the same activity and three-dimensional copolymers with styrene are formed. The allyl ester polymerizes at a somewhat higher rate then the ethyl ester; it forms low molecular linear polymers. Two different double bonds in the allyl ester differ sharply: the vinyl group forms the backbone of the Card 1/2 UDC: 66.095.26+678.86 

ACC NR: AP60101.13		***************************************			1		7
polymer and partic not react and rema with styrene, whic while those contai dependences of the were determined an has: 1 figure and	ins as a side h contain mor ning more tha machanical d d the results	chain. ] e than 1% n 2% phos eformation	It was found phosphorus phorus become lof copolym	that burn only of	copolymers only in an charred.	of PVPA open flather tempers with a line of the contract of th	esters
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L 34022-66 EWI(m)/EWP(1) IJP(c) RM ACC NR: AP6025533 SCURCE CODE: UR/0079/66/036/001/0079/0081 AUTHOR: Geftor, Ye. L.: Rogacheva, I. A. V3 ORG: Scientific Research Institute of Plastics (Nauchno-issledovatel'sky institut plasticheskikh mass) TITLE: Reaction of anyldichlorophosphines with cyclic oxides. XI. Syntheses of esters of phosphorus acids and ethylene glycol by thermal selfcondensation? SOURCE: Zhurnal obshchey khimii, v. 36, no. 1, 1966, 79-81 TOPIC TAGS: estor, phosphorus compound, ethylene glycol, condensation reaction, chemical synthesis, UV irradiation, chemical bonding ABSTRACT: A simple method was developed for synthosizing esters of phosphorus acids and ethylene glycol by thermal self-condensation of mono-betachloroethyl esters of the corresponding acids at 200-240°. The structures of some of these compounds were confirmed by converting them to the corresponding acid chlorides (with PCl<sub>5</sub>), as well as by countersyntheses. The invariance of the rate of the self-condensation reaction in the presence of initiators and inhibitors of radical processes, as well as under the influence of ultraviolet irradiation, makes a free radical mechanism of this process improbable. The authors equider a heterolytic course of the thermal self-condensation (in the polar media of the esters themselves), Card 1/2 上海 美国海洋河里美国国际 温度等的

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ACC NR: AP6023433

SOURCE CODE: UR/0190/65/003/007/1279/1232

AUTHOR: Shnor, S. M.; Rubtsova, I. K.; Gefter, Ye. L.

ORG: Scientific Research Institute of Plastics (Nauchno-issledovatel'skiy institut plasticheskikh mass)

TITLE: Kinetics and mechanism of homonolycondensation of di-2, f'-chloroethylphos-

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 7, 1966, 1279-1282

TOPIC TAGS: polycondensation, phosphorous acid, organic phosphorus compound

ASSTRACT: The kinetics of homopolycondensation of di-\$\beta\$, \$\beta^\*\$-chloroethylphosphorous acid were studied at 195, 200, 205, and 210 °C without a solvent in a stream of dry nitrogen, and the 1.2-dichloroethane evolved (from which the extent of the reaction was calculated) was driven off continuously. The reaction was shown to be first order. Its initial stage consists of an intramolecular conversion, which proceeds via cyclic intermediates and involves a circular electron transfer in accordance with the following hypothetical mechanism:

Card 1/2

UDC: 541.64+678.86

he rate consta ound to be 15. ere polyester rig. art. has:	4 I 2.0 kcal chains forme	/mole. The d by the o	e products.	in ad	dition to	1.2-dichl	oroethane.	
UB CODE: 07/	SURM DATE:	29Jun65/	ORIG REF:	006/	OTH REF:	002		
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L 11/:07-67 E.T(m)/E.F(j) RM  ACC NR: AP7003664 SOURCE CODE: UR/0079/66/036/008/1473/14;  AUTHOR: Talyanker, Yo. G.; Libina, S. L.; Coftor, Yo. L.	14
ORG: none	
TITLE: Production of the dioxide of the di (o-allylphenyl) ester of methylphosphinic acid ()	
SOURCE: Zhurnal obshchey khimii, v. 36, no. 8, 1966, 1473-1474	
TOPIC TAGS: organic oxide, ester, phosphinic acid, pyridine	
ABSTRACT: A new dioxide of the di (o-allylphenyl) ester of methylphosphinic acid was synthesized according by reaction of o-allylphenol with the dichloride of methylphosphinic acid and pyridine, followed by epoxidation of the di (o-allyl-phenyl) ester of methylphosphinic acid produced with excess peracetic acid. [JPRS: 38,970]	•
SUB CODE: 07 / SUBM DATE: 06Jul65 / ORIG REF: 004 / OTH REF: 001	
Card 1/1 JB: UDC: 547,26°118 09-26 0287	

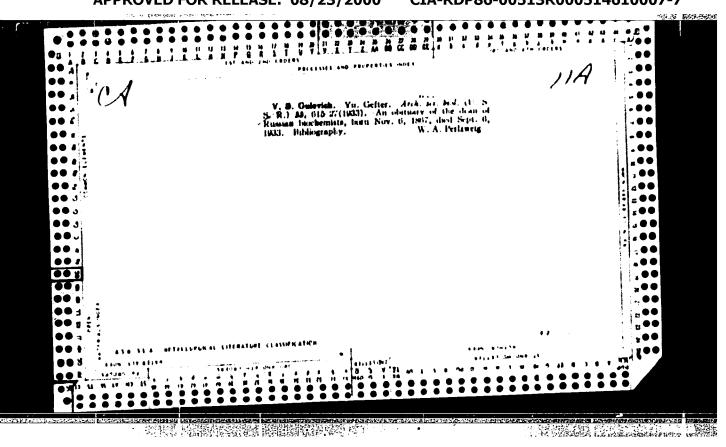
ACC NR: AP6031394 SOURCE CODE: UR/0079/66/036/009/1712/1713 AUTHOR: Gefter, Ye. L.; Rogacheva, I. A. ORG: none TITLE: Mechanism of thermal self condensation of mono- $\beta$ -chloroethyl phosphonate SOURCE: Zhurnal obshchey khimii, v. 36, no. 9, 1966, 1712-1713 TOPIC TAGS: chlorouthyl phosphonate, thermal self condensation, condensation reaction, ABSTRACT: Analysis of recent experimental data on the thermal condensation of 3-chloroethyl esters of arylphosphonous acids leads to the conclusion that the thermal condensation of  $\beta$ -chloroethyl phosphonate proceeds not by the previously proposed ionic mechanism (E. L. Gefter, I. A. Rogacheva, ZhoKh, 36, 79, 1966) CH2CH2DD < --> boch\*ch\*ob < + crch\*ch\*cr 0 . " SUB CODE: [WA-50; CBE No. 12] 07/ SUBM DATE: 20Dec65/ ORIG REF: 003/ Card 1/1 UDC: 547.26'118 THE PERSON CALLS IN MARKET

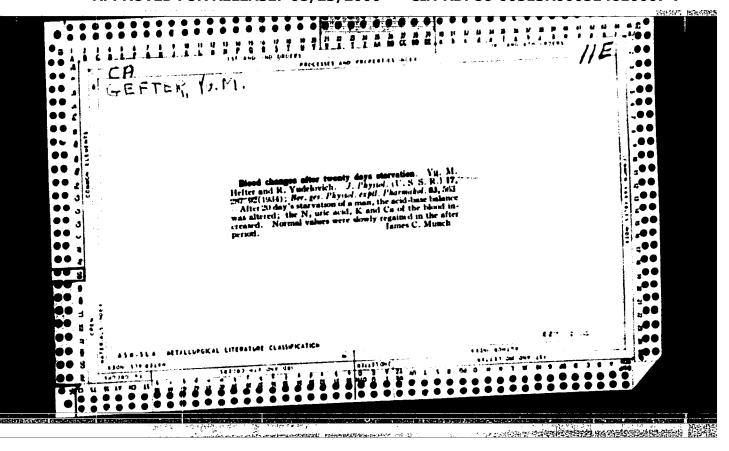
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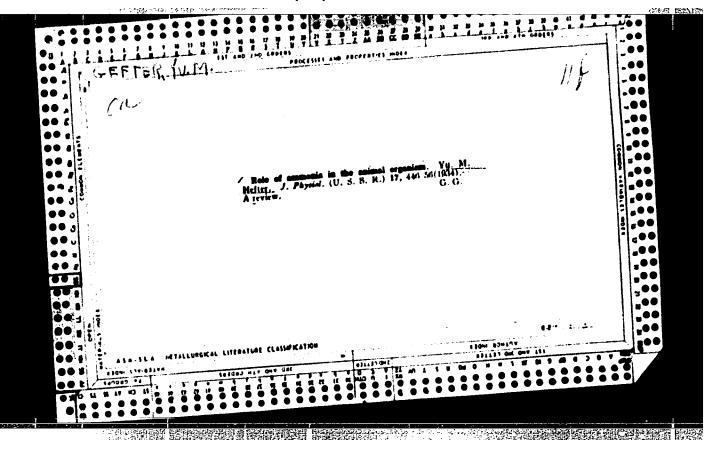
GEFTER, Yu.M.

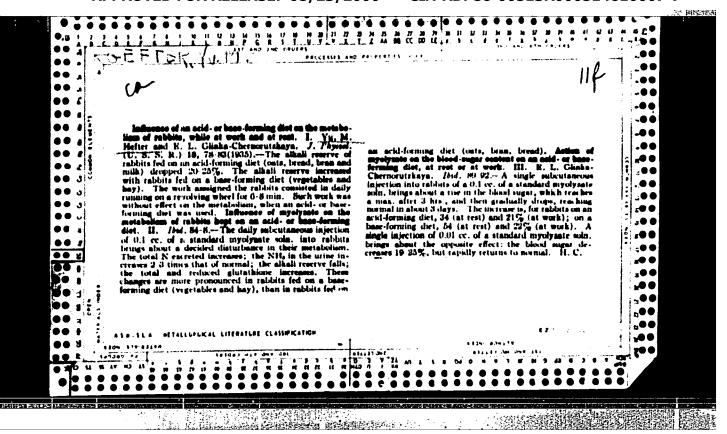
In memory of Professor Viadiatr Sergentish Sadikov, 1874-1942; on the 20th anniversary of his death. Vop.med. khim. 9 no.42 441-442 J1-Ag\*63 (MIRA 17:4)

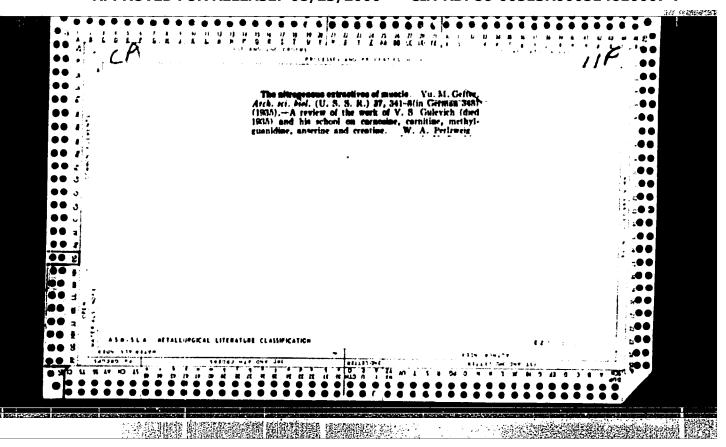
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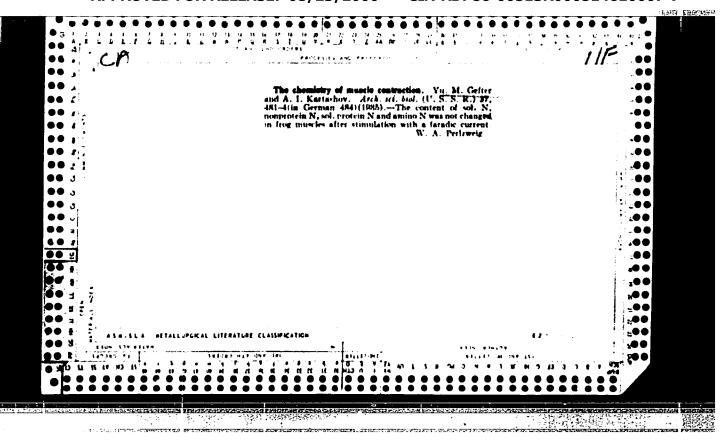


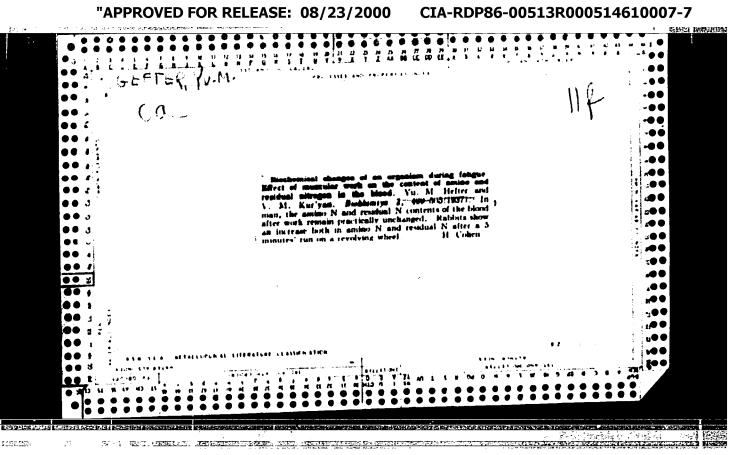


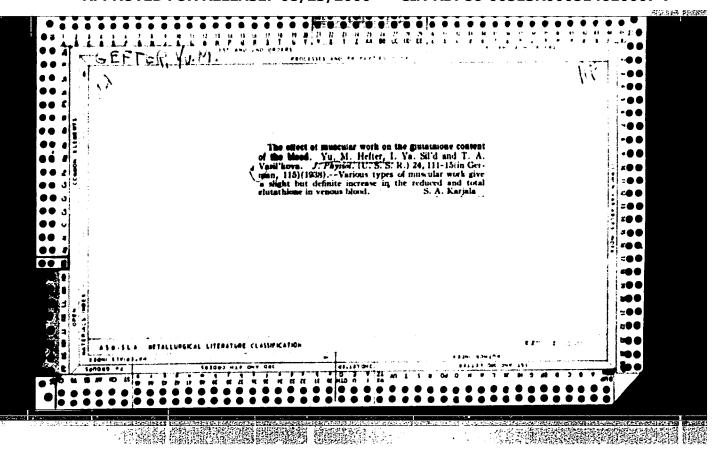




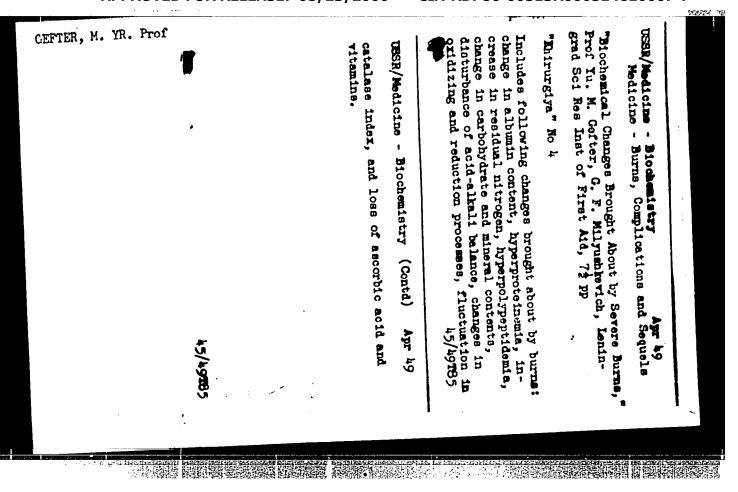


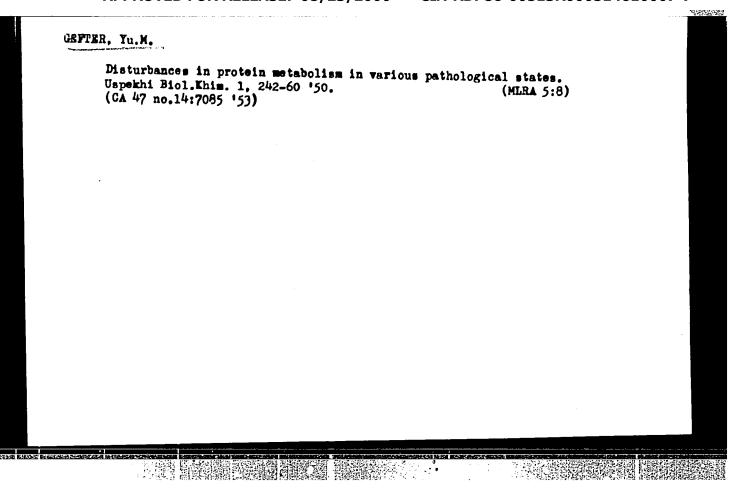


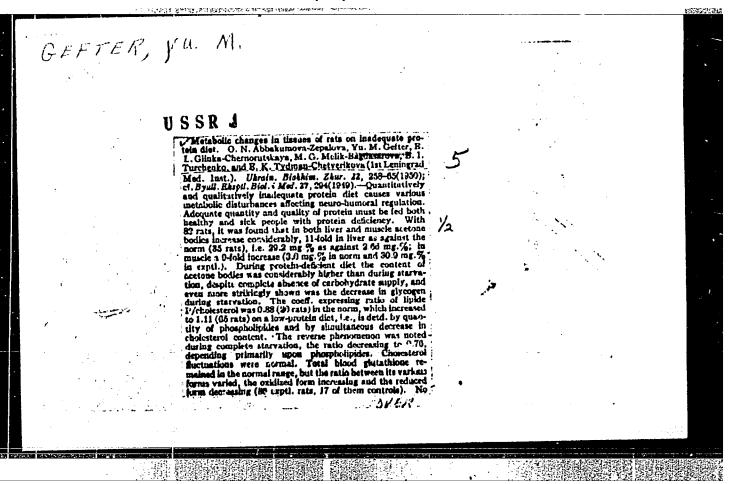


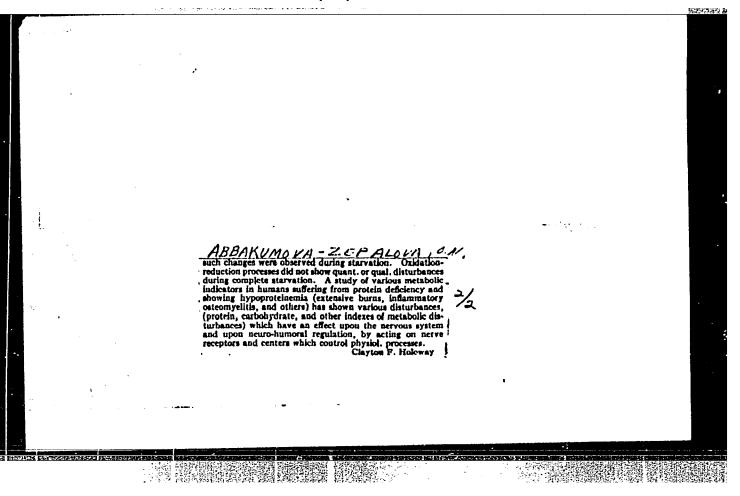


# CESTER Yu. N. 137408. Gefter, Yu. N.: Vladimir Sergeyevich Gulovich. (Bickhimik). Soobsch. o nauch. rabotakh chlenov Vsescjuz. khim. c-va im. Kendeleyeva, 1949, vyr. 3, s. 60-61. So: Letopis' Zhurnal'nykh Statey, Vol. 44









GEFTER, Yu. M.; MILYUSHKEVICH, G.F.; POSTRIKOV, B.M.; SHIT, A.Ya.

Significance of extensive protein diet in the treatment of severe burns. Khirurgiia, Moskva no. 2:25-30 Feb 1953. (CLML 24:2)

1. Of Lemingrad Scientific-Research Institute of First Aid.

Daily observations of patients with severe burns of large areas of their bodies leaves no doubt that recovery is largely due to the high-calorie protein diet. Loss of protein of the blood is very marked in patients with severe burns. Biochemical examination reveals that between 1% and 5% of the contents of blisters is protein. Normally, protein contitutes 6% to 7% of the whole blood. A single blood transfusion of one liter of blood per day is not sufficeent to replenish the daily loss of blood protein; the deficit must be supplemented by proper diet rich in protein.

Translation M-675, 27 Jul 55

GULEVICH, V.S.; GEFTER, Yu.M., redaktor; KOSHTOYANTS, Kh.S., redaktor;
SEVERIN, S.Te., redaktor; TOLKACHEVSKAYA, N.F., redaktor; ENGELGARDT, V.A., otvetstvennyy redaktor; DEMIN, H.N., redaktor; SIMKIEA,
Ye.M., tekhuicheskiy redaktor.

[Selected works] Isbrannye trudy. Moskva, Izd-vo Akademii nauk SSSE,
1954. 335 p.

(Biochemistry)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610007-7"

GEFTER, Yu.M. prof.

Biochemical trend in the works of I.P. Pavlov and its continuation.

Trudy LMI 2:77-84 \*55 (MIRA 11:8)

The state of the s

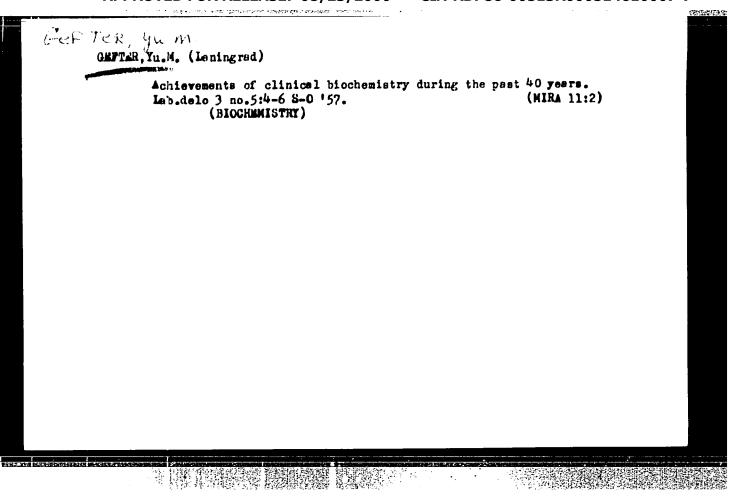
1. Kafedra biokhimii (zav. - prof. Yu.M. Gefter) Pervogo Lemingradskogo meditsinskogo instituta imeni I.P. Pavlova. (PHYSIOLOGICAL CHEMISTRY) (PAVLOV. IVAN PETROVICH, 1849-1936)

```
GEFTER, Yu.M. (Leningrad)

Basic trends in the scientific activities of B.I.Slovtsov, 1874—
1924. Vop.pit. 14 no.2:43-48 Mr-Ap '55.
(BIOGRAPHIES,
Slovtsov, B.I.)
(BIOGRAPHIES,
Slovtsov, B.I., bibliog.)
(MUTRITION,
contribution of B.I.Slovtsov)
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### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514610007-7



GEFTER, YU.M.

USSR / Human and Animal Physiology. Excretion.

T

Abs Jour: Ref Zhur-Biol., No 22, 1958, 101951.

Author : Gefter, Yu. M.

Inst : Not given.

Title : Functional Tests of Kidneys and Their Evaluation.

Orig Pub: Labor. delo, 1957, No 4, 7-11.

Abstract: No abstract.

Card 1/1

en besite ensekrativen in

GEFTER, YU. M., DOBPINSKAYA, M. A., ZAKHAROVA, A. V., ROMANCHUK, L. A., and RUBINA, KH. M. (USSR)

"The Changes in Tissue Metabolism during Hypoxia and Therapeutic Effects."

Report presented at the 5th International Biochemistry Congress. Moscow, 10-16 Aug 1961

BEADER SEEDERSE SEEDS

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610007-7"

া তা এই প্রাকৃতির বা এই প্রাকৃতি বিশ্বতার কর্মনার ক্রিক্তির প্রাকৃতি কর্মনার বিশ্বতার করে বিশ্বতার বিশ্বতার করে	4568492 1000
ZUBRILOV, S.P., insh.; GEFFEROV, M.A., insh.	2.0
Manufacturing wall panels for large-panel construction in construction yards. Biul. tekh. inform. 4 no.1:4-6 Ja '58. (MIRA 11:2)  (LoningradConcrete blocks) (Concrete constructionFormwork)	

ABBUILAYEV, A.A.; GIMEBURG, M.Ya.; VIADIMIRSKIY, A.I.; GRETLER, L.M.

Expedient changes in the system of technological flow in gas-condensate wells. Gas.prom. 5 no.3:10-13 Mr '60.

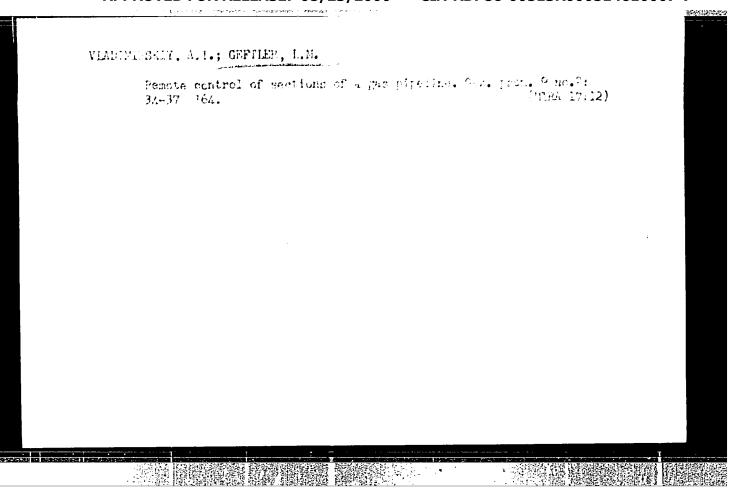
(Condensate oil walls)

(Condensate oil walls)

ABDULLAYEV, Asker Alekperovich; VLADIMIRSKIY, Abram Iosifovich;
GEFTIER, Leonid Mikhaylovich; GINZBURG, Mark Iskovlevich;
GUSETROV, Chingts Saibovich; ZUBAREVA, Ye.I., ved. red.;
POLOSINA, A.S., tekhn. red.

[Automation of gas pipelines in foreign countries]Avtomatizatsiia magistral'nykh gasoprovodov sa rubezhom. Moskva,
Gostoptekhizdat, 1962. 109 p. (MIRA 16:3)

(Gas, Natural—Pipelines) (Automation)



GEGA, T.G. [Heha, T.H.]

Compound treatment of infectious nonspecific polyarthritis. Ped., akush. i gin. 22 no.6:16-19 '60. (MIHA 14:10)

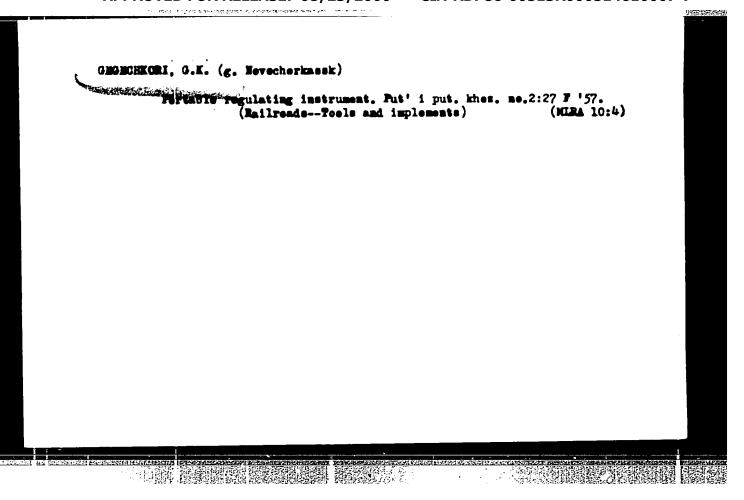
1. Klinika detskikh bolezney (zaveduyushchiy - doktor med.nauk V.P.Chernyuk) Odesskogo meditsinskogo instituta im. M.I.Pirogova (direktor - zasluzh.deyatel' nauki USSR prof. I.Ya.Deyneka). (ARTHRITIS)

GEGAMYAN, A. Ye.

GEGAMYAN, A. Ye.: "A study of the effect of bile and alcohol extracts of garlic in treating certain purulent processes of domestic animals."

Min Higher Education USSR. Yerevan Zooveterinary Inst. Yerevan, 1956. (Dissertation for the Degree of Candidate in Veterinary Science.)

Knishnaya Letopis' No 32, 1956. Moscow.



# GEGECHKORI, M.P.

Marly and high yields of tomatoes due to mixtures of organic, mineral, and microfertilizers. Soob. AN Gruz. SSR 19 no.2:165-172 Ag \*57. (MIRA 11:3)

1. Nauchno-issledovatel'skiy institut zemledeliya Gruzinskoy SER.
Predstavleno chlenom-korrespondentom AN Sh.F. Chanishvili.
(Georgia-Tomatoes) (Fertilizers and manures)

The state of the property of the section of the sec

MINDADZE, A.A.; GEGECHKORI, M.R.

Neurological complications of influenza. Soob. An Gruz. SSR 25 no. 4:489-494 0 160. (MIRA 14:1)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Predstavleno chlenom-korrespondentom Akademii K.P. Chikovani.

(INFLUENZA) (NERVOUS SYSTEM-DISEASES)

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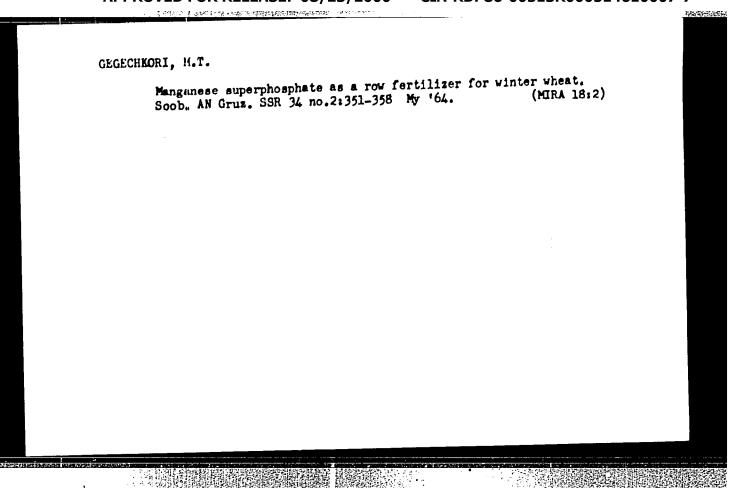
1977年4月 - 現場的影響的1990時代 是來管管學和阿尔巴特別的 - 中华中华中

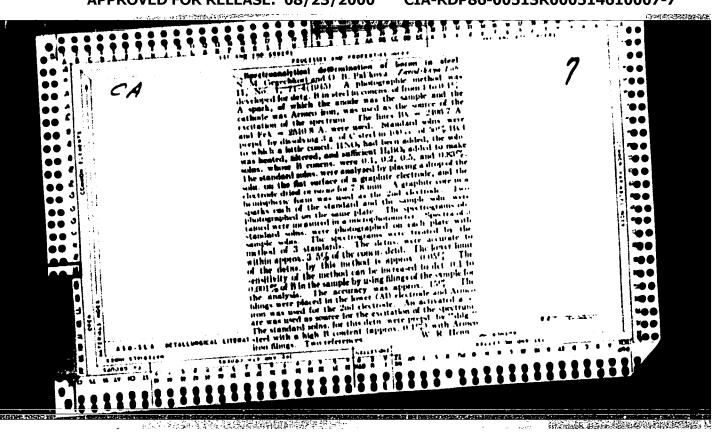
MINDADZE, A.A.; GABISONIA, G.T.; GEGECHKORI, M.R.

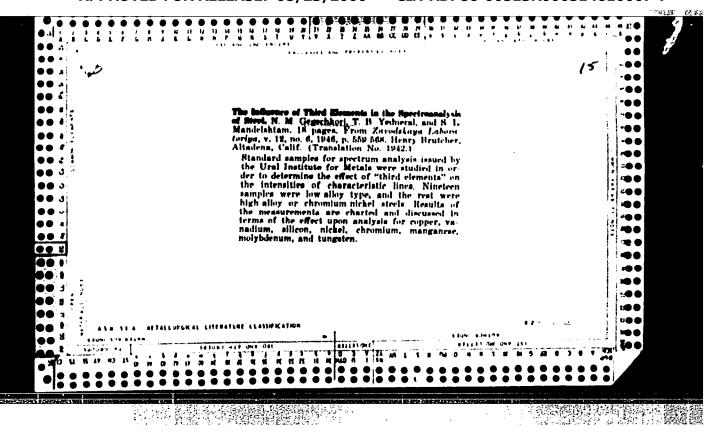
Loss of consciousness in brain concussion. Soob. AN Gruz. SSR

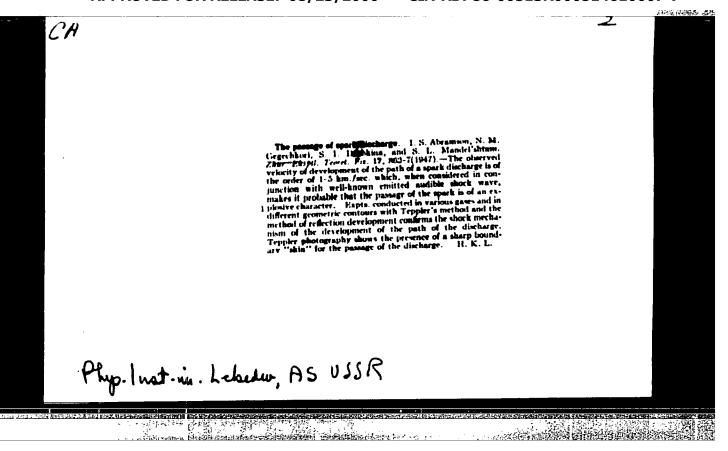
(MIRA 15:7)
28 no.6:757-762 Je '62.

1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Predstavleno akademikom P.P.Kavtaradze. (ERAIN—CONCUSSION) (LOSS OF CONSCIOUSNESS)



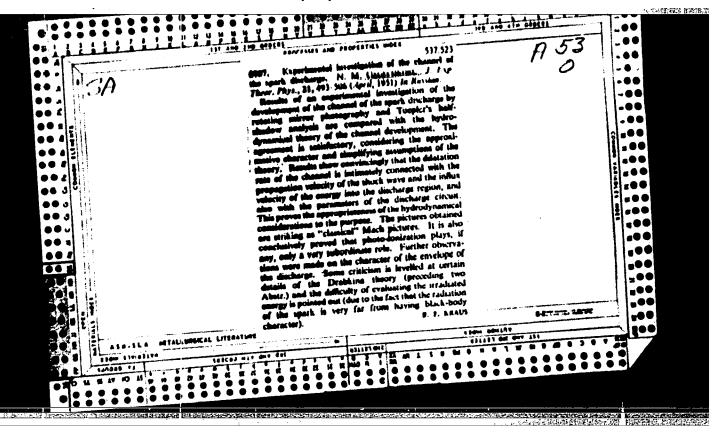






UBSR/Electricity - Discharge, Spark Apr 51
"Oscillographic Investigation of Spark Discharge," I. S. Abramson, N. M. Gegechkori, Phys Inst imeni Lebedev, Acad Sci USSR
"Zhur Eksper i Teoret Fiz" Vol XXI, No 4, pp 484-492
Results of oscillographic recording of voltage and current of spark discharge during intermediate state. Based on these data, ratio of energy inflow velocity to circuit parameters: self-induction, capacity and potential, is detd.
16 180 <b>7</b> 140

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610007-7"



USSR/Chemistry - Analytical chemistry

Card 1/1

Pub. 43 - 54/97

Authors

Gegechkuri, N. M.

Title

Spectroscopic method of determining the composition of glass

Periodical :

Isv. AN SSSR. Ser. fiz. 18/2, page 276, Mar-Apr 1954

Abstract

Experimental data are presented regarding spectroscopic determination of the composition of various types of glass. The error of the spectroscopic method varied between ± 5 and 7%.

Institution :

Subaritted

CIA-RDP86-00513R000514610007-7" APPROVED FOR RELEASE: 08/23/2000

Category: USSR/Optics - Optical methods of analysis. Instruments

Section

K-7

文學 是那是可能學科問題等語

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 2519

Author : Gegechkori, N.M.

Title : Determination of Certain Impurities in Tungsten by Spectral Methods

Orig Pub : Zavod, laboratoriya, 1955, 21, No 9, 1075-1079

Abstract : Examination of a method for spectral analysis of raw material, intermediate

products, and finished articles made of tungsten containing impurities of Si, Al, Fe, Cs, and Mg in amounts from 0.001% and above; the relative error of the method is 6--0% for a single determination. The method is based on the suppression of the tungsten spectrum by creating in the excitation source conditions that contribute to difficulty-volatile compounds of this element. For this purpose, all the above materials were converted by roasting in air at 700--8000 into tungsten trioxide, the powder of which was mixed with carbon powder at a ratio 1:1 and with 1% (of the weight of the carbon) of CuO. A briquette made of 50 mg of the mixture was placed in the deep crater of a carbon electrode of a dc arc. By choosing the depth of the crater, the size of the batch, and the ratio of the tungsten trioxide and carbon in the mixture, it became possible to obtain for the sample a spectrum without tungsten lines.

Card : 1/1

ACAFONOVA, V.A.; BMDNAYA, L.D.; BOCHKAREVA, I.I.; VITES, V.G.; CMCHCHKORI, N.M.;
DTATLOVA, O.A.; YMFIMOVA, Z.A.

Spectrum analysis of high-melting metals: tungsten and molybdenum.
Fis.sbor. no.4:44-51 \*58. (MIRA 12:5)

(Tungsten-Spectra) (Molybdenum-Spectra)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610007-7"

28 (5) AUTHORS:

Gegechkori, N. K., Perminova, V. M., SOV/32-25-8-28/44

Veselovskaya, I. M., Gusarskiy, V. V., Kozovlev, I. A.,

Dem'yanchuk, A. S., Galishnikova, Z. P., Pedan, G. A., Mamot,

Zh. A., Stukovenkova, K. N., Sukhenko, K. A., Barasheva, T. V.,

Tishin, I. G., Amirkhanov, Sh. Kh.

TITLE:

News in Brief

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 8, pp 981-983 (USSR)

ABSTRACT:

1) The authors determined the impurities of Si, Fe, Al, Mn, Mg, Cu, Ca, Bi, Pb, Sb, and Na in thorium dioxide with a sensitivity of 10<sup>-2</sup>-10<sup>-4</sup>% by burning a briquette from the sample mixed with carbon powder (3:1) in the crater of a carbon electrode type "ryumka". The spectograph ISP-22 was used. The analytical doublets are listed. 2) The author reports on the application of a photoelectric device FES-1 for the rapid analysis of openhearth furnace slag for silicon dibxide (15-30%), calcium oxide (25-55%) and complete iron (5-15%). There is a description of the operational method. 3) The laboratoriya zavoda (Plant laboratory) applies a spectrum method for the determination of titanium impurities (of an approximately 0.01% concentration) in aluminum

Card 1/4

News in Brief

507/32-25-8-28/44

alloys according to a series of standard samples. A spectrograph ISP-22 and an ac arc generator PS-39 were used. 4) The author reports on a method for localized spectrum analysis of steels and welded seams for the determination of phosphorus. The distribution of P was investigated in thin layers (up to 0.02 mm) of metals and welding seams by the use of a DG-1 generator and a quartz spectrograph and the phosphorus contents of microscopic inclusions and thin coatings were investigated. 5) The author determines calcium oxide and ferrous oxide in slags of electric furnaces in which the slag sample (0.2 g) was wetted with a saturated aqueous copper sulfate solution (2 ml) subsequently dried and put in the craters of two arc carbon electrodes. Spectrograph ISP-22 and generator DG-1 were used. 6) The author analyzed magnesite and magnesitic refractory substances by mixing the sample with carbon and barium nitrate (1:2:1) and evaporating it in the crater of a carbon electrode in an ac arc. A spectrograph ISP-22 was used. The use of this method was introduced at the Plant "Magnezit", Kuznetskiy metallurgicheskiy kombinat(Kuznetsk Metallurgical Kombinat) and Zaporozhskiy savod ogneuporov (Zaporozh'ye Plant of Refractory Materials). 7) The authors apply a spectrum method for the determination of phosphorus

Card 2/4

News in Brief

SOV/32-25-8-28/44

pentoxide in zirconium dioxide. The determination takes only 2 hours. 20 mg of the sample mixed with carbon (1:1) is put into the carbon electrode and the spectrum lines are measured with a spectrograph ISP-28. 8) The authors, waking in the laboratoriya instituta (Institute Laboratory) report the preparation of standard samples from technical Ti for the determination of hydrogen by the spectrum method. The article contains a description of the preparation method and the determination results according to different methods of the hydrogen in standard samples (Table). The difference is maximum relative ± 13.9%. 9) The author reports on a simple spectrum method for the determination of small quantities of Ba and Mn in calcium chloride water of high mineral contents. He used a spectrograph ISP-22, microphotometer MF-2 and standard samples. There are 1 figure and 1 table.

Card 3/4

News in Brief

507/32-25-8-28/44

ASSOCIATION:

1) Laboratoriya nauchao-issledovatel'skogo instituta (Laboratory of the Scientific Research Institute), 2) Zavod "Serp i molot" (Plant "Serp i molot"), 4) Institut elektrosvarki im. Ye. O. Patona Akademii nauk USSR (Electric Welding Institute imeni Ye. O. Paton of the Academy of Sciences of the UkrSSR), 5) Stalingradskiy metallurgicheskiy zavod "Krasnyy Oktyabr'" (Stalingrad Metallurgical Plant "Krasnyy Oktyabr'"), 6) Vsesoyuznyy nauchno-issledovatel'skiy institut ogneuporov, Khar'kov (All-Union Scientific Research Institute of Refractory Materials, Khar'kov), 7) Zhdanovskoye rudoupravleniye, g. Volnovakha (Zhdanov Mining Administration, City Volnovakha), 9) Ufimskiy neftyanoy nauchno-issledovatel'skiy institut (Ufa Petroleum Scientific Research Institute)

Card 4/4

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610007-7"

L 15170-66 EWT(1)/ETC(f)/EPF(n)-2/EWG(m)/T LJP(c) AT ACC NR: AP6002420 SOURCE CODE: UR/0020/65/165/005/1045/1047

AUTHOR: Gegechkori N. M.

ORG: none

TITLE: Effect which the drift of ions from a discharge has on the state of impurity ionization 21,44,55

SOURCE: AN SSSR. Doklady, v. 165, no. 5, 1965, 1045-1047

TOPIC TAGS: hydrogen plasma, plasma physics, spectral line, electric discharge ionization, ion density

ABSTRACT: The author considers the total number of atoms or ions contributing to the formation of a given line for calculating energy losses from a hot hydrogen 21, plasma and also for evaluating electron temperatures from the intensity of individual spectral lines. Drift and diffusion processes are considered as well as recombination of icns on the walls of the discharge chamber. It is assumed that the number of impurity ions and atoms in the discharge remains constant and that the rate of the drift for the ions is independent of their charge. Helium, which is weakly

**Card 1/2** 

UDC: 533.9.07

L 15170-66

ACC NR: AP6002420

adsorbed by the walls of the chamber was considered as an impurity. A system of equations is given which describes ionization of the helium with respect to ion drifts from the chamber for a uniform plasma with a given electron temperature and density. The problem is solved for the density of neutral atoms, singly charged and doubly charged ions. Curves are given showing the steady-state values of these densities as a function of ion lifetime as well as the time dependence of the various densities at different ion lifetimes. The results show that care should be taken in interpreting the data of spectral measurements for each specific experimental case. They also indicate that there is a theoretical possibility of determining the average lifetime of ions in terms of their drift from a discharge. In conclusion I am sincerely grateful to Ye. I. Dobrokhotov for discussion of this work. Orig. art. has: 3 figures, 1 table, 2 formulas.

SUB CODE: 20/ SUBM DATE: 24Mar65/ ORIG REF: 000/ OTH REF: 004

Card 2/2

Gorel', C. G. and Tsybina, E. G. - "Un the toxicity of tetralin, "In Symposium: Isoledovanilya v oblasti prom. teksiholgii, Loningrad, 1747, p. 227-15 - Siblion: 7 items

So: U-9600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1947).

GEGELATHVILLY K.V.

USBR / General Biology. General Histology.

: Ref Zhur - Biol., No 19, 1958, No 65557 Abs Jour

: 300 lashvili, K. V. Author

: Some Date on Histochemical Investigation of La-: Not Civon Inst Title

bryonic Merve Tissue. Report 1. Deoxyribonu-

cloic Acid.

: Sabehota meditaina, 1957, No. 5, 13-20. Orig Pub

: A study was conducted by the relgen reaction of Abstract

DHA content in cells of the anterior brain in chick embryos on the 5th, 10th, 15th, and 20th day of incubation. On the 5-10th day, DNA chan-tos to a granular state. The granules are arran-ged around the nucleolus. The histochemical chan-ges correspond evidently to the morphological and functional specialization of coll elements of the

anterior brain. -- Author's abstract.

Card 1/1

13

GEGELACHVILE, K. V.: Minter Med Sci (diss) -- "Some cytological aspects of the developing embryonic brain tissue". Tbilisi, 1959. 20 pm (Tbilisi State Med Inst), 200 copies (KL, No 18, 1959, 128)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610007-7"

### "APPROVED FOR RELEASE: 08/23/2000 CIA-

CIA-RDP86-00513R000514610007-7

# [Eistochemistry of mucleic acids and nucleoproteins and some problems of functional morphology]Gistokhimiia nukleinovykh kislot i nukleoproteidov i nekotorye voprosy funktsional'noi morfologii. Tbilisi, 1962. 189 p. (MINA 16:1) (Nucleic acids) (Nucleoproteins)

GEGELASHVILI, V.K.; SHAPOSHNIKOV, L.D.

Steel bushings and plungers. Stek.i ker. 19 no.9;32-33 S '62.

(MIRA 15:9)

1. Ordzhorikidzevskiy steklotarno-izolyatornyy zavod.

(Glass factories--Equipment and supplies)

GEGELASHVILI, V.K.; CORCHAKOV, M.M.; FEDORYUK, G.M.; SVIDZINSKAYA, I.V.

Tank furnace for continuous operation direct heating in the manufacture of S-87-1 glass products. Stek. i ker. 20 no.12: 27-29 D '63. (MIRA 17:1)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610007-7"

DZHAPARIDZE, P.N., starshiy nauchnyy sotr., kand. tekhn. nauk;

GEGELE, V., red.; AVALIANI, N.M., red. izd-va; BOKERIYA, N.B.,
tekhn. red.

[Physicochemical nature of the strength of condensed substances and methods for its quantitative expression] Fiziko-khimiche-skaia sushchnost' prochnostnykh svoistv kondensirovannykh veshchestv i sposoby ikh kolichestvennogo vyrazheniia. Tbilisi. Izi-vo Akad. nauk Gruzinskoi SSR, 1961. 245 p. (MIRA 15:5)

1. Rukovoditel' laboratorii pirogennykh protsessov Instituta prikladnov khimii i elektrokhimii Akademii nauk Gruzinskov SSR (for Dzhaparidze).

(Strength of materials)

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OB399-67 EMP(e)/EMT(m)/EMP(t)/ETI IJP(c) JD/MM/JG/MH ACC NR. AP6C31745 SOURCE CODE: UR/0072/66/000/007/0011/0014

AUTHOR: Shumitskaya, L. F.; Gegelashvili, V. K.; Zhukovskiy, V. V.; Svidzinskaya, I.V.

ORG: Ordzhonikidze Plant of Container Glassware and Glass Insulators (Ordshonikidsev-skiy steklotarno-izolyatornyy zavod)

TITIE: Production of glasses stable to the action of alkali metal vapors

SOURCE: Steklo i keramika, no. 7, 1966, 11-14

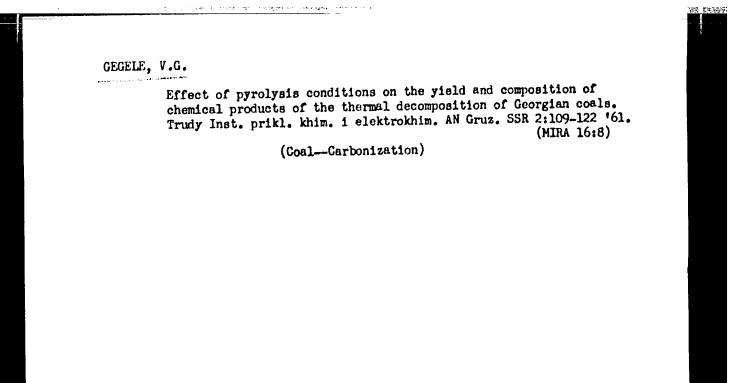
TOPIC TAGS: borate glass, aluminophosphate glass, sodium, cesium

ABSTRACT: As a result of studies of aluminoborate and aluminoborophosphate glass systems, carried out at NIIES, \$50-1 glasses stable to the action of cesium vapor and \$50-2 glasses stable to the action of sodium vapor were developed. The founding and processing technology worked out by NIIES has been used at the Ordzhonikidze Plant since 1963. Physicochemical and other properties of \$50-1 and \$50-2 glasses are reviewed. The furnaces used for founding the glasses and the schedules employed are described. The adoption of production of glasses resistant to alkali metal vapors has permitted the Moscow Electric Lamp Plant (Moskovskiy elektrolampovyy zavod) to manufacture highly economical sodium vapor illumination lamps and sodium and cesium vapor spectral lamps. Orig. art. has: 4 figures and 2 tables.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 001

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UDC: 666.117.4



APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610007-7"

GEGELE, V.G.; TSERETELI, Ye.A.

Thermal decomposition of Thibuli coal in a value. Trudy Inst. prikl.khim.i elektrokhim.AN Gruz.SSR 3:195-205 62.

(Coal—Carbonization)

(Coal—Carbonization)

GEGILE, V.G.; LITSIROVA, L.A.

Effect of mineral additions on Tkibili coal pyrolysis.

Trudy Inst. prikl. khim. i elektrokhim. AN Gruz, SSR 4;
81-89 '63. (MTHA 17:5)

GEORLIYA, T.G.; KUPRADZE, V.D., deystvitel'nyy chlen.

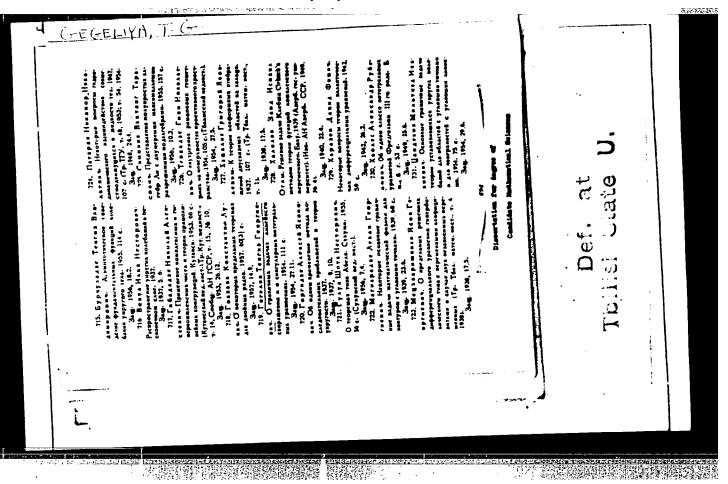
Certain singular integral equations of particular form. Soob.AN Gruz.SSR
13 no. 10:581-586 '52. (MLRA 6:5)

1. Tbilisskiy gosudarstvennyy universitet im. Stalina (for Gegeliya).
2. Akademiya Mauk Gruzinskoy SSR (for Kupradze). (Integral equations)

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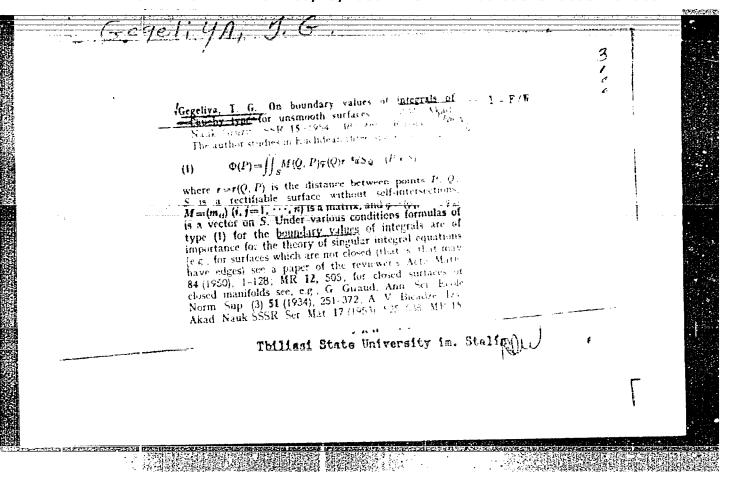
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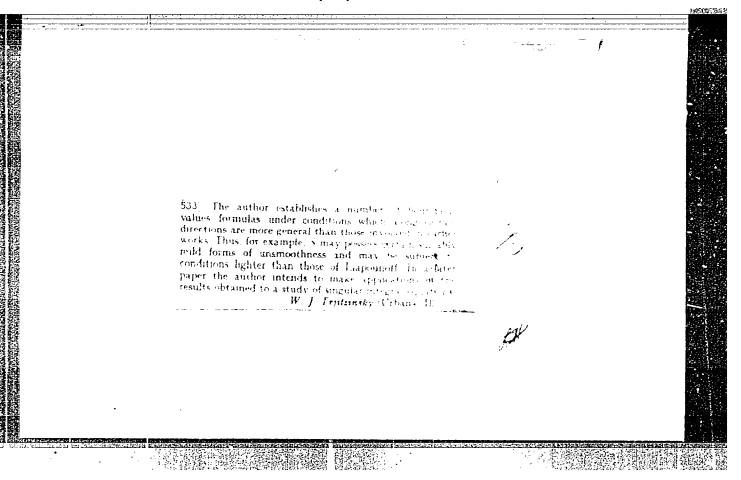
GEGULI A. T. G.

Hilbert's Boundary Problem and Singular Integral Equations for the Case of Intersecting Contours," Soobshch. AN Grun SSP, Vol 15, No 2, pp 69-76, 1954

The author gives the solution of the Hilbert boundary problem in the theory of analytic functions in the case when the plane of the complex variable is cut along a contour which is the finite totality of closed and open lines fulfilling two conditions i posed by the author. This is a generalization of two earlier works (Trjitzinsky, W. J., Trans. Amer. Math. Soc., 1946,60,167-214; and Kvaselava, D. A., Tr. Tbilis, matem. in-ta, 1949, 17, 1-27). (RrhMat, No 6, 1955)

Sum. No. 681, 7 Oct. 55





### "APPROVED FOR RELEASE: 08/23/2000

### CIA-RDP86-00513R000514610007-7

SUBJECT

136 35 6 19 M. T. S.

USSR/MATHEMATICS/Theory of functions

CARD 1/3 PG - 717

AUTHOR

GEGELIJA T.G.

TITLE

On a generalization of a theorem of G.Giraud.

PERIODICAL

Soobs Jenija Akad Nauk Gruzinskoj SSR 16, 657-663 (1955)

reviewed 4/1957

The author considers the principal value in the sense of Cauchy of the integral which is defined by

(i) 
$$\psi(P) = \iint_{S} \frac{\mu(Q,P) \left[ \psi(Q) - \psi(P) \right]}{p^{2}(Q,P)} dS_{Q},$$

where S is a surface without multiple lines; P,Q are points of S; p(P,Q) the distance between P and Q; M(P,Q) is a function given on S, and  $\varphi$  (Q) is a continuous function being defined on S.

1. Atfirst the author introduces the notion of the surface of the class B being defined as follows: For P∈S let \( \mathbb{P}(P) \) be the plane which passes through the point P, and  $\Pi^{*}(P, V)$  and  $S^{*}(P, V)$  respectively are the parts of  $\Pi(P)$ and the surface S contained in the inner of the sphere  $C(P, \vee)$ . It is assumed that there exists a biunique connection between S'(P, v) and a certain part  $\Pi'(P, \nu)$  such that if  $Q \in S'(P, \nu)$ , then there exists  $Q' \in \Pi'(P, \nu)$  such that 

Soobacenija Akad. Nauk Gruzinskoj SSR 16, 657-663 CARD 2/3 PG - 717

 $\mathbb{C},\mathbb{C}_1,\mathbb{C}_2, \forall$  being positive constants and do the element of area in the point Q' of the plane  $\Pi$  (P). 2. Every continuous function  $\varphi(\mathbb{Q})$  defined on S is called function of the

class T if there exists

$$\lim_{\delta \to 0} \iint_{S_{\varphi,\delta}^{\Phi,\delta}} \frac{|\varphi(Q) - \varphi(P)|}{p^2(P,Q)} dS_Q$$

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uniformly for PeS, where  $S(P, \delta) = S - S'(P, \delta)$ . Then the author establishes: Theorem 1. If  $\omega(\delta, \varphi)$  is the modul of continuity of  $\varphi$  on S and if  $S \in B$  and  $\varphi \in T$ , then we have

(3)  $\omega(5, \psi) \leq c \left\{ \omega(\delta, \psi) + \int_{0}^{\delta} \frac{\omega(\tau, \psi)}{\tau} d\tau + \delta \int_{0}^{\tau} \frac{\omega(\tau, \psi)}{\tau^{2}} d\tau \right\},$ 

where C and  $\eta$  are positive constants. Theorem 2. If SEB and  $\varphi \in T$ , then  $\int_{0}^{T} I(\tau, \psi) \mu(\tau) d\tau \leq C \left\{ \int_{0}^{T} I(\tau, \psi) \mu(\tau) d\tau + \int_{0}^{T} \frac{\mu(t)}{\tau} dt + \int_{0}^{T} \frac{I(\tau, \psi)}{\tau} d\tau \int_{0}^{T} \mu(t) dt \right\},$ 

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Soobscenija Akad. Nauk Gruzinskoj SSR 16, 657-663 (1955) CARD 3/3

where M(t) is an arbitrary positive and integrable function,  $TI(T,\psi)=\omega(T,\psi)$ , and C and M7 positive constants.

3. Then the author studies some more special classes of continuous functions, e.g. the classes  $\mathbf{H}_{\alpha} \mathbf{\Lambda}_{\mathbf{r}}$  and  $\mathbf{h}_{\alpha}' \mathbf{\lambda}_{\mathbf{r}}$  of the functions  $\varphi$  being defined on S and satisfying the conditions:

 $\omega(\delta, \varphi) = O(\delta^{\alpha} \lg^{-r} \frac{1}{\delta})$  and  $\omega(\delta, \varphi) = o(\delta^{\alpha} \lg^{-r} \frac{1}{\delta})$ . If  $I_r$  is the set of the function  $\varphi$  such that

 $\int_{\Omega} I(\tau, \gamma) \lg^{r} \frac{\gamma}{\tau} d\tau < \infty, \text{ then } (S \in B \text{ and } \gamma \in I_{0}) \Rightarrow (\gamma \in T) \text{ (theorem 3)}.$ 

The theorems 1-3 imply

Theorem 4. If  $S \in B$ , and  $\varphi$  belongs to one of the classes  $H_d \Lambda_r$   $(0 < \alpha < 1)$ ;

 $\mathbf{H_{1}\Lambda_{r+1},\ h_{1}\lambda_{r+1}\ (r<0);\ \ H_{1}\Lambda_{r+1},\ h_{1}\lambda_{r+1}\ \ (p<0);\ \Lambda_{r+1},\ D_{r+1}\ (p>0);\ I_{r+1}}$ 

 $(r \geqslant 0)$ ,  $I_{\infty}$ , where  $H_0 \Lambda_r = \Lambda_r$ ,  $h_0 \lambda_r = D_r$  (r > 0), then  $\psi$  being defined by (1)

 $H_{\alpha}\Lambda_{r}$ ,  $h_{\alpha}\lambda_{r}$ ;  $H_{1}\Lambda_{r}$ ,  $h_{1}\lambda_{r}$ ;  $H_{1}$ ;  $h_{1}$ ;  $H_{0}\Lambda_{r}$ ,  $h_{0}\lambda_{r}$ ,  $I_{r}$ ,  $I_{\infty}$  —  $\prod I_{r}$ , respectively.